Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
- a) an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54,
- b) a naturally occurring amino acid sequence having-at least 90% sequence identity to an amino acid sequence selected from the group of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54, wherein the variant regulates cell proliferation,
- c) a biologically active fragment of an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5,

SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54, wherein the biologically active fragment regulates cell proliferation,

d) an immunogenic fragment of an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54, wherein the immunogenic fragment is capable of inducing a specific immune response.

2. (Original) An isolated polypeptide of claim 1 selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54.

- 3. (Original) An isolated polynucleotide encoding a polypeptide of Claim 1.
- 4. (Original) An isolated polynucleotide encoding a polypeptide of Claim 2.
- 5. (Original) An isolated polynucleotide of claim 4 selected from the group consisting of SEQ ID NO: 55, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 61, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO: 74, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78, SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO: 99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 104, SEQ ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, and SEQ ID NO: 108.
- 6. (Original) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 3.
 - 7. (Original) A cell transformed with a recombinant polynucleotide of claim 6.
- 8. (Withdrawn) A transgenic organism comprising a recombinant polynucleotide of claim 6.
- 9. (Original) A method for producing a polypeptide of claim 1, the method comprising:
- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and
 - b) recovering the polypeptide so expressed.
- 10. (Withdrawn) An isolated antibody which specifically binds to a polypeptide of claim 1.

11. (Currently amended) An isolated polynucleotide comprising a polynucleotide sequence selected from the group consisting of:

a) a polynucleotide sequence selected from the group consisting of SEQ ID NO: 55, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 61, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO: 74, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78, SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO: 99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 104, SEQ ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, and SEQ ID NO: 108, wherein the polynucleotide encodes a polypeptide that can regulate cell proliferation,

b) a naturally occurring polynucleotide sequence having at least 70% sequence identity to a polynucleotide sequence selected from the group consisting of SEQ ID NO: 55, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 61, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO: 74, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78, SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO: 99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 104, SEQ ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, and SEQ ID NO: 108, wherein the naturally occurring polynucleotide encodes a polypeptide that can regulate cell proliferation,

- c) a polynucleotide sequence complementary to a), wherein the polynucleotide encodes a polypeptide that can regulate cell proliferation,
- d) a polynucleotide sequence complementary to b), wherein the polynucleotide encodes a polypeptide that can regulate cell proliferation, and
 - e) an RNA equivalent of a)-d).

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12. (Canceled)

13. (Withdrawn) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:

- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
- b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

14. (Canceled)

- 15. (Withdrawn) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:
- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
- 16. (Original) A composition comprising an effective amount of a polypeptide of claim 1 and a pharmaceutically acceptable excipient.
- 17. (Original) A composition of claim 16, wherein the polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43,

SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEO ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54.

18. (Canceled)

- 19. (Withdrawn) A method for screening a compound for effectiveness as an agonist of a polypeptide of claim 1, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 1 to a compound, and
 - b) detecting agonist activity in the sample.

20.-21. (Canceled)

- 22. (Withdrawn) A method for screening a compound for effectiveness as an antagonist of a polypeptide of claim 1, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 1 to a compound, and
 - b) detecting antagonist activity in the sample.

23.-24. (Canceled)

- 25. (Withdrawn) A method of screening for a compound that specifically binds to the polypeptide of claim 1, said method comprising the steps of:
- a) combining the polypeptide of claim 1 with at least one test compound under suitable conditions, and
- b) detecting binding of the polypeptide of claim 1 to the test compound, thereby identifying a compound that specifically binds to the polypeptide of claim 1.
- 26. (Withdrawn) A method of screening for a compound that modulates the activity of the polypeptide of claim 1, said method comprising:
- a) combining the polypeptide of claim 1 with at least one test compound under conditions permissive for the activity of the polypeptide of claim 1,
- b) assessing the activity of the polypeptide of claim 1 in the presence of the test compound, and
- c) comparing the activity of the polypeptide of claim 1 in the presence of the test compound with the activity of the polypeptide of claim 1 in the absence of the test compound,

wherein a change in the activity of the polypeptide of claim 1 in the presence of the test compound is indicative of a compound that modulates the activity of the polypeptide of claim 1.

- 27. (Canceled)
- 28. (Withdrawn) A method for assessing toxicity of a test compound, said method comprising:
 - a) treating a biological sample containing nucleic acids with the test compound;
- b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 11 under conditions whereby a specific hybridization complex is formed between said probe and a target polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 11 or fragment thereof;
 - c) quantifying the amount of hybridization complex; and
- d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.
- 29. (Withdrawn) A method for screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a sequence of claim 5, the method comprising:
- a) exposing a sample comprising the target polynucleotide to a compound, under conditions suitable for the expression of the target polynucleotide,
 - b) detecting altered expression of the target polynucleotide, and
- c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.
- 30. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:1.
- 31. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEO ID NO:2.

32. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:3.

- 33. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:4.
- 34. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:5.
- 35. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:6.
- 36. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:7.
- 37. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:10.
- 38. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:11.
- 39. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:12.
- 40. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:13.
- 41. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:14.
- 42. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:15.
- 43. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:17.

44. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:18.

- 45. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:20.
- 46. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:22.
- 47. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:23.
- 48. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:24.
- 49. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:25.
- 50. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:26.
- 51. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:28.
- 52. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:29.
- 53. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:30.
- 54. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:31.
- 55. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:32.

56. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:33.

- 57. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:34.
- 58. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEO ID NO:35.
- 59. (Previously presented) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO: 36.
- 60. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:37.
- 61. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:38.
- 62. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:39.
- 63. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:41.
- 64. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:42.
- 65. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:43.
- 66. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:44.
- 67. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:45.

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68. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:46.

- 69. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:47.
- 70. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:48.
- 71. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:50.
- 72. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:51.
- 73. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:52.
- 74. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:53.
- 75. (Withdrawn) A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:54.
- 76. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:55.
- 77. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:56.
- 78. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:57.
- 79. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:58.

80. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:59.

- 81. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:60.
- 82. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:61.
- 83. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:64.
- 84. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:65.
- 85. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:66.
- 86. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:67.
- 87. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:68.
- 88. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:69.
- 89. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:71.
- 90. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:72.
- 91. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:74.

92. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:76.

- 93. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:77.
- 94. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:78.
- 95. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:79.
- 96. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:80.
- 97. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:82.
- 98. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:83.
- 99. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:84.
- 100. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:85.
- 101. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:86.
- 102. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:87.
- 103. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:88.

104. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:89.

- 105. (Previously presented) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO: 90.
- 106. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:91.
- 107. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:92.
- 108. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:93.
- 109. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:95.
- 110. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:96.
- 111. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:97.
- 112. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:98.
- 113. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:99.
- 114. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:100.
- 115. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:101.

116. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:102.

- 117. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:104.
- 118. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:105.
- 119. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:106.
- 120. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:107.
- 121. (Withdrawn) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:108.
- 122. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:1.
- 123. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:2.
- 124. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:3.
- 125. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:4.
- 126. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:5.
- 127. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:6.

128. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:7.

- 129. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:10.
- 130. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:11.
- 131. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:12.
- 132. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:13.
- 133. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:14.
- 134. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:15.
- 135. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:17.
- 136. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:18.
- 137. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:20.
- 138. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEO ID NO:22.
- 139. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:23.

140. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:24.

- 141. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:25.
- 142. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:26.
- 143. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:28.
- 144. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:29.
- 145. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:30.
- 146. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:31.
- 147. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:32.
- 148. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:33.
- 149. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:34.
- 150. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:35.
- 151. (Previously presented) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO: 36.

152. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:37.

- 153. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEO ID NO:38.
- 154. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:39.
- 155. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:41.
- 156. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:42.
- 157. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:43.
- 158. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:44.
- 159. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:45.
- 160. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:46.
- 161. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:47.
- 162. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEO ID NO:48.
- 163. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:50.

164. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:51.

- 165. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:52.
- 166. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:53.
- 167. (Withdrawn) A method of claim 9, wherein the polypeptide has the sequence of SEQ ID NO:54.
- 168. (Withdrawn) A diagnostic test for a condition or disease associated with the expression of human cell cycle and proliferation proteins (CCYPR) in a biological sample comprising the steps of:
- a) combining the biological sample with an antibody of claim 10, under conditions suitable for the antibody to bind the polypeptide and form an antibody:polypeptide complex; and
- b) detecting the complex, wherein the presence of the complex correlates with the presence of the polypeptide in the biological sample.
 - 169. (Withdrawn) The antibody of claim 10, wherein the antibody is:
 - a) a chimeric antibody,
 - b) a single chain antibody,
 - c) a Fab fragment,
 - d) a F(ab')₂ fragment, or
 - e) a humanized antibody.
- 170. (Withdrawn) A composition comprising an antibody of claim 10 and an acceptable excipient.
- 171. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of human cell cycle and proliferation proteins (CCYPR) in a subject, comprising administering to said subject an effective amount of the composition of claim 170.

- 172. (Withdrawn) A composition of claim 170, wherein the antibody is labeled.
- 173. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of human cell cycle and proliferation proteins (CCYPR) in a subject, comprising administering to said subject an effective amount of the composition of claim 172.
- 174. (Withdrawn) A method of preparing a polyclonal antibody with the specificity of the antibody of claim 10 comprising:
- a) immunizing an animal with a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:45, SEQ ID NO:53, and SEQ ID NO:54, or an immunogenic fragment thereof, under conditions to elicit an antibody response;
 - b) isolating antibodies from said animal; and
- c) screening the isolated antibodies with the polypeptide, thereby identifying a polyclonal antibody which binds specifically to a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54.

- 175. (Withdrawn) An antibody produced by a method of claim 174.
- 176. (Withdrawn) A composition comprising the antibody of claim 175 and a suitable carrier.
- 177. (Withdrawn) A method of making a monoclonal antibody with the specificity of the antibody of claim 10 comprising:
- a) immunizing an animal with a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:45, SEQ ID NO:53, and SEQ ID NO:54, or an immunogenic fragment thereof, under conditions to elicit an antibody response;
 - b) isolating antibody producing cells from the animal;
- c) fusing the antibody producing cells with immortalized cells to form monoclonal antibody-producing hybridoma cells;
 - d) culturing the hybridoma cells; and
- e) isolating from the culture monoclonal antibody which binds specifically to a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:39, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54.

- 178. (Withdrawn) A monoclonal antibody produced by a method of claim 177.
- 179. (Withdrawn) A composition comprising the antibody of claim 178 and a suitable carrier.
- 180. (Withdrawn) The antibody of claim 10, wherein the antibody is produced by screening a Fab expression library.
- 181. (Withdrawn) The antibody of claim 10, wherein the antibody is produced by screening a recombinant immunoglobulin library.
- 182. (Withdrawn) A method for detecting a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54, in a sample comprising the steps of:
- a) incubating the antibody of claim 10 with a sample under conditions to allow specific binding of the antibody and the polypeptide; and
- b) detecting specific binding, wherein specific binding indicates the presence of a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:39, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54, in the sample.

183. (Withdrawn) A method of purifying a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54, from a sample the method comprising:

- a) incubating the antibody of claim 10 with a sample under conditions to allow specific binding of the antibody and the polypeptide; and
- b) separating the antibody from the sample and obtaining the purified polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:45, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, and SEQ ID NO:54.
- 184. (Previously presented) A microarray wherein at least one element of the microarray is a polynucleotide of claim 12.
- 185. (Previously presented) A method for generating a transcript image of a sample which contains polynucleotides, the method comprising the steps of:
 - a) labeling the polynucleotides of the sample
- b) contacting the elements of the microarray of claim 184 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and

c) quantifying the expression of the polypeptides in the sample.

186. (Currently amended) An array comprising different nucleotide molecules affixed in distinct physical locations on a solid substrate, wherein at least one of said nucleotide molecules comprises a first oligonucleotide or polynucleotide sequence specifically hybridizable <u>under high stringency conditions</u> with at least 30 contiguous nucleotides of a target polynucleotide, said target polynucleotide having a sequence of claim 11.

- 187. (Previously presented) An array of claim 186, wherein said first oligonucleotide or polynucleotide sequence is completely complementary to at least 30 contiguous nucleotides of said target polynucleotide.
- 188. (Previously presented) An array of claim 186, wherein said first oligonucleotide or polynucleotide sequence is completely complementary to at least 60 contiguous nucleotides of said target polynucleotide.
 - 189. (Previously presented) An array of claim 186, which is a microarray.
- 190. (Currently amended) An array of claim 186, further comprising said target polynucleotide hybridized <u>under high stringency conditions</u> to said first oligonucleotide or polynucleotide.
- 191. (Previously presented) An array of claim 186, wherein a linker joins at least one of said nucleotide molecules to said solid substrate.
- 192. (Previously presented) An array of claim 186, wherein each distinct physical location on the substrate contains multiple nucleotide molecules having the same sequence, and each distinct physical location on the substrate contains nucleotide molecules having a sequence which differs from the sequence of nucleotide molecules at another physical location on the substrate.
- 193. (New) An isolated polypeptide, wherein the polypeptide comprises an amino acid sequence having at least 95% sequence identity to the amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID

NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54, and regulates cell proliferation.

- 194. (New) The isolated polypeptide of claim 193, wherein the polypeptide consists of at least one conservative amino acid substitution and regulates cell proliferation.
- 195. (New) An isolated polynucleotide encoding a polypeptide variant of an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2., SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 2, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, and SEQ ID NO: 54, wherein the polypeptide variant consists of at least one conservative amino acid substitution and regulates cell proliferation.